EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1633	709/231.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:04
L2	1600	718/100.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:04
L3	2146	713/300.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:04
L4	417	713/310.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:05
L5	1198	713/320.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:05
L6	2152	713/321-324.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:05
L7	319	713/330.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:05
L8	665	713/340.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:05
L9	917	719/310.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:05

EAST Search History

L10	371	715/866.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:05
L11	521	340/870.18.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:06
L12	74	714/810.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:06
L13	519	455/103.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:06
L14	9051	709/201-203.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:06
L15	1404	709/200.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:06
L16	28947	709/217-236.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:06
L17	428	maximum near5 transmission near5 power near5 level	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:07
L18	13	l17 and signal near5 path near5 gain	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:07
L19	3996	signal near5 path near5 gain	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:07

EAST Search History

L20	525	l19 and error near5 rate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:08
L21	196	l20 and wireless	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:08
L22	147	l21 and modulation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:08
S1	387	signal adj2 interference adj plus adj noise adj ratio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:28
S2	59	S1 same error adj rate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:28
S3	22	S2 and wireless and stream$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:34
S4	18	S3 and SINR	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:52
S5	93	BER near3 combin$6 near3 BER	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:53
S6	0	BER near3 combin$6 near3 SINR	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:53
S7	21	BER same combin$6 same SINR	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:53

EAST Search History

S8	0	BER near5 combin$6 near5 SINR	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:54
S9	3	BER near10 combin$6 near10 SINR	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:56
S10	0	leung-kin.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:57
S11	2	chawla-kapil.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:57
S12	46	leung-kin$.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:57
S13	20	chawla-kapil$.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:57
S14	17	driessen-peter$.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:57
S15	41	qiu-xiaoxin$.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:57
S16	40	l11-l15	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:58
S17	107	S11 or S12 or S13 or S14 or S15	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:58

EAST Search History

S18	0	S17 and streaming adj service	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 14:58
S19	3	S17 and stream$5 and link adj adaptation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:17
S20	43	PER near5 SINR	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:22
S21	43	S20 and wireless	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:24
S22	0	S21 and music	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:22
S23	0	S21 and MPEG4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:22
S24	0	S20 and error adj based	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:24
S25	7	S20 and error near2 based	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:38
S26	6	link adj adaptation and modulation and coding adj level	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:43
S27	0	predicted adj interference adj power adj level	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:43

EAST Search History

S28	3	predict$5 near5 interference adj power adj level	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:45
S29	106	(MPEG4 or MPEG adj "4") near5 (AAC or (Advanced adj audio adj coder))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:46
S30	1	S29 and EGPRS	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:47
S31	0	S29 and link adj adaptation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:47
S32	0	S29 and SINR	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:47
S33	43	S29 and PER	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:48
S34	10	S33 and streaming	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:47
S35	43	S29 and PER	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:50
S36	41	packet adj switched adj bearers	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:54
S37	0	S36 and error near5 concealment near5 technique	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:51

EAST Search History

S38	272	error near5 concealment near5 technique	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:51
S39	215	error adj concealment adj technique	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:51
S40	21	S39 and receiving adj end	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:52
S41	4	S39 same receiving adj end	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:52
S42	6	S36 same stream$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 15:57
S43	9	EGPRS and power adj3 technique	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 16:03
S44	1	EGPRS and signal adj path adj gain	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 16:04
S45	2	SINR same signal adj path adj gain	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 16:08
S46	3	SINR and signal adj path adj gain	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 16:10
S47	8	SINR same path adj gain	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 16:20

EAST Search History

S48	1	("6374117").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/24 17:14
S49	1	("6760313").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/24 17:32
S50	0	music adj delivery adj service and SINR	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 17:33
S51	44	music adj delivery adj service	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 17:36
S52	3	S51 and cellular	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 17:33
S53	0	S51 and MPEG4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 17:34
S54	1	S51 and MPEG adj "4"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 17:34
S55	10	S51 and wireless	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 17:51
S56	1	("6856812").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/24 17:57
S57	1	("6282209").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/24 18:19
S58	1	("5901186").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/24 18:26
S59	2	(("5901186") or ("6,760,313")).PN.	US-PGPUB; USPAT	OR	OFF	2005/10/24 18:28
S60	19	interval same power adj control adj technique	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 18:28

S61	19	S60 and intervals same power adj control adj technique	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 18:28
S62	2	S60 and intervals same power adj control adj technique	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 18:34
S63	0	intervals same link adj adaptation adj technique	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 18:35
S64	0	periodic same link adj adaptation adj technique	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 18:35
S65	8	intervals and link adj adaptation adj technique	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 18:37
S66	29	intervals and link adj adaptation adj technique	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 18:37
S67	0	intervals same periodic and link adj adaptation adj technique	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 18:37
S68	5	intervals and periodic and link adj adaptation adj technique	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 18:43
S69	61	link adj adaptation adj technique	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 18:43
S70	1130612	S69 and period$5 or interval	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 18:43

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S71	47	S69 and (period$5 or interval)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 18:43
S72	33	S69 and (periodic or interval)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 18:44
S73	9	S69 and (periodic)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 18:45
S74	24	S72 not S73	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 18:51
S75	230	signal adj path adj gain	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/24 18:51
S76	197	signal adj path adj gain	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 18:51
S77	4	S76 and transmission adj power adj level	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 18:52
S78	2647208	S77 and predicted adj interference adj power level	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 18:52
S79	4	S77 and (predicted adj interference adj power level)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 18:53
S80	0	S77 and (predicted adj interference adj power adj level)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 18:53

EAST Search History

S81	0	(predicted adj interference adj power adj level)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 18:53
S82	140	(interference adj power adj level)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 18:53
S83	1	S77 and (interference adj power adj level)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 18:59
S84	2	predict$5 near5 (interference adj power adj level)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 19:08
S85	79	maximum adj transmission adj power adj level	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 19:10
S86	1	S85 and SINR	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 19:09
S87	42	S85 and wireless	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 19:09
S88	3	S87 and signal adj path	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 19:09
S89	3	(US-20050135312-$).did. or (US-6952181-$ or US-6657214-$). did.	US-PGPUB; USPAT	OR	ON	2005/10/24 19:10
S90	3	S89 and maximum adj transmission adj power adj level	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 19:24

EAST Search History

S91	55	SIPNR	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 19:24
S92	192	signal adj interference adj plus adj noise adj ratio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 19:33
S93	94	S92 and error adj rate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 19:27
S94	0	S93 and signal adj path adj gain	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 19:26
S95	1	S93 and maximum adj transmission adj power adj level	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 19:26
S96	13	S93 and predict$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 19:27
S97	13	(US-20050068922-$ or US-20040208251-$ or US-20030086366-$ or US-20020186761-$ or US-20020093926-$ or US-20020075830-$ or US-20020067761-$).did. or (US-6882678-$ or US-6463295-$ or US-6389066-$ or US-6215827-$ or US-6108374-$ or US-5886988-$). did.	US-PGPUB; USPAT	OR	ON	2005/10/24 19:45
S98	13	S97 and signal adj interference adj plus adj noise adj ratio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 19:43
S99	4	divid$5 same interference adj power adj level	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/24 19:44

EAST Search History

S10 0	11	S92 near5 estimat$5	US-PGPUB; USPAT	OR	ON	2005/10/24 19:45
S10 1	1	("5778224").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/26 16:02
S10 2	1	("5799173").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/26 16:02
S10 3	1	("6044225").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/26 20:20
S10 4	1	("6223274").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/27 17:56
S10 5	1	("6,751,663").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/27 17:56
S10 6	1	("6,625,657").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/27 17:57
S10 7	1	("6,405,251").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/27 17:57
S10 8	4981	leung$.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:19
S10 9	47	leung-kin$.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:19
S11 0	20	chawla-kapil$.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:19
S11 1	17	driessen-peter$.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:20
S11 2	1	qui-xiaoxin$.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:20
S11 3	8732	at&t$.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:20

S114	8784	S109 or S110 or S111 or S112 or S113	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:20
S115	4	S114 and link adj adaptation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:24
S116	158	S114 and power adj control$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:25
S117	0	S116 and signal adj to adj noise	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:21
S118	0	S116 and signal adj to adj2 noise	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:25
S119	29	S116 and signal adj3 noise	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:23
S120	7888	709/230-238.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:23
S121	1330	709/200.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:23
S122	0	"709".201-203.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:24
S123	8278	709/201-203.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:24

EAST Search History

S124	22263	709/217-229.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:24
S125	32560	S120 or S121 or S123 or S124	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:24
S126	11	S125 and link adj adaptation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:31
S127	347	S125 and power adj control$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:31
S128	0	S126 and signal adj to adj2 noise	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:25
S129	0	S127 and signal adj to adj2 noise	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:25
S130	32	S127 and signal adj3 noise	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:26
S131	1281	370/329.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:26
S132	2469	370/252.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:26
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S15 9	7	S158 and link adj adaptation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 19:41

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1 Energy Awareness and Power Control: Minimum energy paths for reliable communication in multi-hop wireless networks
Suman Banerjee, Archan Misra
June 2002 **Proceedings of the 3rd ACM international symposium on Mobile ad hoc networking & computing**
Publisher: ACM Press
Full text available: pdf(189.29 KB) Additional Information: full citation, abstract, references, citings, index terms

Current algorithms for minimum-energy routing in wireless networks typically select minimum-cost multi-hop paths. In scenarios where the transmission power is fixed, each link has the same cost and the minimum-hop path is selected. In situations where the transmission power can be varied with the distance of the link, the link cost is higher for longer hops; the energy-aware routing algorithms select a path with a large number of small-distance hops. In this paper, we argue that such a formulati ...

Keywords: ad-hoc networks, energy efficiency, routing

2 Wireless intraoffice networks
K. Pahlavan
July 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 3
Publisher: ACM Press
Full text available: pdf(1.98 MB) Additional Information: full citation, abstract, references, citings, index terms, review

An overview of the existing and growing demands for wireless office information networks is provided, and the existing research activities are assessed in some detail. The radio frequency (RF) and infrared (IR) communication technologies are examined as candidates for wireless intraoffice communications. The available bandwidths, according to federal regulations and characteristics of the channel for RF communications, are given. Digital narrow-band and wideband spread-spectrum RF communica ...

3 Wireless LAN optimizations: MiSer: an optimal low-energy transmission strategy for IEEE 802.11a/h
Daji Qiao, Sunghyun Choi, Amit Jain, Kang G. Shin
September 2003 **Proceedings of the 9th annual international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(248.70 KB) Additional Information: full citation, abstract, references, citings, index terms

Reducing the energy consumption by wireless communication devices is perhaps the most important issue in the widely-deployed and exponentially-growing IEEE 802.11 Wireless LANs (WLANs). TPC (Transmit Power Control) and PHY (physical layer) rate adaptation have been recognized as two most effective ways to achieve this goal. The emerging 802.11h standard, which is an extension to the current 802.11 MAC and the high-speed 802.11a PHY, will provide a structured means to support intelligent TPC.In t ...

Keywords: IEEE 802.11a/h, MiSer, PHY rate adaptation, TPC

4 PARO: supporting dynamic power controlled routing in wireless ad hoc networks
Javier Gomez, Andrew T. Campbell, Mahmoud Naghshineh, Chatschik Bisdikian
September 2003 **Wireless Networks**, Volume 9 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(311.95 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper introduces PARO, a dynamic power controlled routing scheme that helps to minimize the transmission power needed to forward packets between wireless devices in ad hoc networks. Using PARO, one or more intermediate nodes called "redirectors" elects to forward packets on behalf of source-destination pairs thus reducing the aggregate transmission power consumed by wireless devices. PARO is applicable to a number of networking environments including wireless sensor networks, home networks ...

Keywords: ad hoc networks, power control, power optimization, routing protocols

5 Link and channel measurement: A simple mechanism for capturing and replaying wireless channels
Glenn Judd, Peter Steenkiste
August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**
Publisher: ACM Press
Full text available: pdf(6.06 MB) Additional Information: full citation, abstract, references, index terms

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

6 Wide-band TD-CDMA MAC with minimum-power allocation and rate- and BER-scheduling for wireless multimedia networks
Xudong Wang
February 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 1
Publisher: IEEE Press
Full text available: pdf(523.38 KB) Additional Information: full citation, abstract, references, index terms

A wide-band time-division-code-division multiple-access (TD-CDMA) medium access control (MAC) protocol is introduced in this paper. A new minimum-power allocation algorithm is developed to minimize the interference experienced by a code channel such that heterogeneous bit-error rate (BER) requirements of multimedia traffic are satisfied. Further, from analysis of the maximum capacity of a time slot, it is concluded that both rate and BER scheduling are necessary to reach a maximum capacity. Base ...

Keywords: bit-error rate (BER), medium access control (MAC), minimum-power allocation, quality of service (QoS), wide-band TD-CDMA

7 Resource Control and QoS in Wireless Systems: Resource control for elastic traffic in CDMA networks
Vasilios A. Siris
September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(467.48 KB) Additional Information: full citation, abstract, references, citings, index terms

We present a framework for reso urce control in CDMA networks carrying elastic traffic, considering both the uplink and the downlink direction. The framework is based on microeconomics and congestion pricing, and seeks to exploit the joint control of the transmission rate and the signal quality in order to achieve efficient utilization of network resources, in a distributed and decentralized manner. An important feature of the framework is that it incorporates both the congestion for shared resou ...

Keywords: congestion pricing, radio resource management, rate control, utility functions, wireless/wired integration

8 Signal design and system operation of Globalstar versus IS-95 CDMA—similarities and differences
Leonard Schiff, A. Chockalingam
January 2000 **Wireless Networks**, Volume 6 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: pdf(273.24 KB) Additional Information: full citation, abstract, references, index terms

The Globalstar^{TM} system provides telephone and data services to and from mobile and fixed users in the area between ± 70 degrees latitude. Connection between user terminals and the PSTN is established through fixed terrestrial gateways via a constellation of low earth orbiting (LEO) satellites. Globalstar uses an extension of the IS‐95 CDMA standard that is used in terrestrial digital cellular systems. The LEO satellite link is ...

9 Low power converter circuits: 2.45 GHz power and data transmission for a low-power autonomous sensors platform
Stefano Gregori, Yunlei Li, Huijuan Li, Jin Liu, Franco Maloberti
August 2004 **Proceedings of the 2004 international symposium on Low power electronics and design**
Publisher: ACM Press
Full text available: pdf(710.58 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a power conversion and data recovery system for a microwave powered sensor platform. A patch microwave antenna, a matching filter and a rectifier make the system frontend and implement the RF-to-DC conversion of power carrier. The efficiency of the power conversion is as high as 47% with an input power level 250 μW at 2.45 GHz. Then, a 0.18 μm CMOS integrated circuit extracts the clock and the digital data. A modified pulse amplitude modulation scheme is used to modulate the ...

Keywords: RF to DC power conversion, low power clock and data recovery, microwave power transmission, wireless sensor

10 Mobile power management for wireless communication networks
John M. Rulnick, Nicholas Bambos
March 1997 **Wireless Networks**, Volume 3 Issue 1
Publisher: Kluwer Academic Publishers
Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(274.39 KB) terms, review

For fixed quality-of-service constraints and varying channel interference, how should a mobile node in a wireless network adjust its transmitter power so that energy consumption is minimized? Several transmission schemes are considered, and optimal solutions are obtained for channels with stationary, extraneous interference. A simple dynamic power management algorithm based on these solutions is developed. The algorithm is tested by a series of simulations, including the extraneous-interfer ...

11 Routing 1: Efficient geographic routing in multihop wireless networks
Seungjoon Lee, Bobby Bhattacharjee, Suman Banerjee
May 2005 **Proceedings of the 6th ACM international symposium on Mobile ad hoc networking and computing MobiHoc '05**
Publisher: ACM Press
Full text available: pdf(257.99 KB) Additional Information: full citation, abstract, references, index terms

We propose a new link metric called *normalized advance (NADV)* for geographic routing in multihop wireless networks. NADV selects neighbors with the optimal trade-off between proximity and link cost. Coupled with the local next hop decision in geographic routing, NADV enables an adaptive and efficient cost-aware routing strategy. Depending on the objective or message priority, applications can use the NADV framework to minimize various types of link cost.We present efficient methods for li ...

Keywords: geographic routing, link cost estimation, routing metric, wireless multihop networks

12 Best poster papers from MobiHoc 2002: An on-demand minimum energy routing protocol for a wireless ad hoc network
Sheetalkumar Doshi, Shweta Bhandare, Timothy X Brown
June 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 3
Publisher: ACM Press
Full text available: pdf(203.93 KB) Additional Information: full citation, abstract, references, citings, index terms

A minimum energy routing protocol reduces the energy consumption of the nodes in a wireless ad hoc network by routing packets on routes that consume the minimum amount of energy to get the packets to their destination. This paper identifies the necessary features of an *on-demand* minimum energy routing protocol and suggests mechanisms for their implementation. We highlight the importance of efficient caching techniques to store the minimum energy route information and propose the use of an ...

13 Networking experience: Understanding packet delivery performance in dense wireless sensor networks
Jerry Zhao, Ramesh Govindan
November 2003 **Proceedings of the 1st international conference on Embedded networked sensor systems**
Publisher: ACM Press
Full text available: pdf(501.89 KB) Additional Information: full citation, abstract, references, citings, index terms

Wireless sensor networks promise fine-grain monitoring in a wide variety of environments. Many of these environments (*e.g.*, indoor environments or habitats) can be harsh for wireless communication. From a networking perspective, the most basic aspect of wireless communication is the packet delivery performance: the spatio-temporal characteristics of packet loss, and its environmental dependence. These factors will deeply impact the performance of data acquisition from these networks.In th ...

Keywords: low power radio, packet loss, performance measurement

14 SpectrumWare: a software-oriented approach to wireless signal processing
David L. Tennenhouse, Vanu G. Bose
December 1995 **Proceedings of the 1st annual international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(1.29 MB) Additional Information: full citation, references, index terms

15 Routing optimizations: Minimum energy disjoint path routing in wireless ad-hoc networks
Anand Srinivas, Eytan Modiano
September 2003 **Proceedings of the 9th annual international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(452.89 KB) Additional Information: full citation, abstract, references, citings, index terms

We develop algorithms for finding minimum energy disjoint paths in an all-wireless network, for both the node and link-disjoint cases. Our major results include a novel polynomial time algorithm that optimally solves the minimum energy 2 link-disjoint paths problem, as well as a polynomial time algorithm for the minimum energy k node-disjoint paths problem. In addition, we present efficient heuristic algorithms for both problems. Our results show that link-disjoint paths consume substantially le ...

Keywords: disjoint paths, distributed algorithms, energy efficiency, minimum energy, multipath routing, wireless ad-hoc networks

16 A rate-adaptive MAC protocol for multi-Hop wireless networks
Gavin Holland, Nitin Vaidya, Paramvir Bahl
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(467.95 KB) Additional Information: full citation, abstract, references, citings, index terms

Wireless local area networks (W-LANs) have become increasingly popular due to the recent availability of affordable devices that are capable of communicating at high data rates. These high rates are possible, in part, through new modulation schemes that are optimized for the channel conditions bringing about a dramatic increase in bandwidth efficiency. Since the choice of which modulation scheme to use depends on the current state of the transmission channel, newer wireless devices often supp ...

17 The SpectrumWare approach to wireless signal processing
David L. Tennenhouse, Vanu G. Bose
March 1996 **Wireless Networks**, Volume 2 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references, citings, index terms

The SpectrumWare project is applying a software oriented approach to wireless communication and distributed signal processing. Advances in processor and analog-to-digital conversion technology have made it possible to implement virtual radios that directly sample wide bands of the RF spectrum and process these samples in application software. The elimination of dedicated hardware introduces tremendous flexibility into a wireless communication system. Our approach goes further than the softw ...

18 MR^{2}RP: the multi-rate and multi-range routing protocol for IEEE 802.11 ad hoc wireless networks
Shiann-Tsong Sheu, Yihjia Tsai, Jenhui Chen

March 2003 **Wireless Networks**, Volume 9 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: pdf(252.69 KB) Additional Information: full citation, abstract, references, index terms

This paper discusses the issue of routing packets over an IEEE 802.11 *ad hoc* wireless network with multiple data rates (1/2/5.5/11 Mb/s). With the characteristics of modulation schemes, the data rate of wireless network is inversely proportional with the transmission distance. The conventional shortest path of minimum-hops approach will be no longer suitable for the contemporary multi-rate/multi-range wireless networks (MR^2WN). In this paper, we will propose an efficient delay- ...

Keywords: ad hoc, local area network (LAN), medium access control (MAC), routing, wireless

19 CyPhone—bringing augmented reality to next generation mobile phones
Tino Pyssysalo, Tapio Repo, Tuukka Turunen, Teemu Lankila, Juha Röning
April 2000 **Proceedings of DARE 2000 on Designing augmented reality environments**
Publisher: ACM Press
Full text available: pdf(6.46 MB) Additional Information: full citation, abstract, references, index terms

We describe a prototype implementation of a future mobile phone called CyPhone. In addition to voice calls, it has been designed to support context-specific and multi-user multimedia services in an augmented reality manner. Context-awareness has been implemented with GPS-based navigation techniques and a registration algorithm, capable of detecting a predefined 3-D model or a landmark in the environment. A new adaptive transport protocol has been developed to support real-time packet-switched ...

Keywords: mobile communication, navigation, networked virtual reality, real-time data transport protocols, registration

20 Interference in wireless multi-hop ad-hoc networks and its effect on network capacity
Ramin Hekmat, Piet Van Mieghem
July 2004 **Wireless Networks**, Volume 10 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: pdf(552.50 KB) Additional Information: full citation, abstract, references, index terms

In this paper we propose a new model to calculate interference levels in wireless multi-hop ad-hoc networks. This model computes the expected value of Carrier to Interference ratio *(C/I)* by taking into account the number of nodes, density of nodes, radio propagation aspects, multi-hop characteristics of the network, and the amount of relay traffic. The expected values of *C/I* are used to determine network capacity and data throughput per node. Our model uses a regular lattice for po ...

Keywords: ad-hoc networks, analytical methods, interference, modelling, sensor networks, throughput

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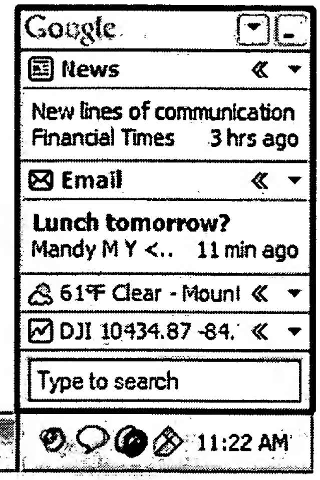

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